

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Previously Presented) Shelf storage facility comprising:

a plurality of shelf bays each of which presents a shelf with an upper side providing for first guiding means fixed to the shelf, whereof each is disposed in a shelf bay and is configured as a guiding channel extending in the longitudinal direction of the shelf,

a plurality of product supports each of which is associated with a respective shelf bay, which product support is provided with second guiding means fixed to the product support, which second guiding means equal each other and are complementary to said first guiding means fixed to the shelf, as well as a supporting surface for products to be stored, and

a storage and retrieval device designed for being moved in front of each of said shelf bays,

said product support is supported for displacement in the longitudinal direction relative to the guiding channel of the respective shelf,

said product support comprises a receiving channel extending in the longitudinal direction and open in the upward direction, whose at least one face side has an open configuration, and

said storage and retrieval device provides for an actuating finger adapted to be engaged in said product support and to be displaced in the longitudinal direction, as well as at least one retaining finger that is pivotable into the clearance of said receiving channel open in the upward direction.

2. (Previously Presented) Shelf storage facility according to Claim 1, wherein said shelf bays are disposed in groups and the shelves of one group are connected to each other.

3. (Canceled)

4. (Previously Presented) Shelf storage facility according to Claim 1, wherein said shelf bays are arranged in groups and that the shelves of one group are disposed in a horizontal plane.

5. (Previously Presented) Shelf storage facility according to Claim 1, wherein all shelf bays present the same depth, measured in a direction orthogonal on a plane in which said storage and retrieval device moves when it is positioned from one shelf bay to another shelf bay.

6. (Previously Presented) Shelf storage facility according to Claim 1, wherein said shelf bays present different widths by groups.

7. (Previously Presented) Shelf storage facility according to Claim 5, wherein a respective shelf bay is open to the respective laterally adjacent shelf bays.

8. (Previously Presented) Shelf storage facility according to Claim 1, wherein said first guiding means fixed to the shelf are formed by the geometry of the respective shelf.

9. (Previously Presented) Shelf storage facility according to Claim 1, wherein said shelf includes as said first guiding means, on its upper side, a guiding channel open to the top and extending in the longitudinal direction of the shelf.

10. (Previously Presented) Shelf storage facility according to Claim 1, wherein said shelf presents two plane surfaces extending in a V-shaped configuration relative to each other and passing with this relative arrangement through the depth of the respective shelf bay.

11. (Previously Presented) Shelf storage facility according to Claim 1, wherein said shelf of a respective shelf bay is merely formed by two surfaces extending in a V-shaped configuration relative to each other.

12. (Previously Presented) Shelf storage facility according to Claim 11, wherein surfaces extending in a V-shaped configuration relative to each other are integral with each other.

13. (Previously Presented) A shelf storage facility, comprising:

a plurality of shelf bays which each present a shelf with an upper side providing for a first guide fixed to the shelf, each disposed in a shelf bay and is configured as a guiding channel extending in the longitudinal direction of the shelf, the shelf of a respective shelf bay is formed by two surfaces extending in a V-shaped configuration relative to each other and enclosing an angle of 90° therebetween;

a plurality of product supports each associated with a respective shelf bay, each product support has a second guide fixed to the product support, which second guide is complementary to the first guide fixed to the shelf, and a supporting surface; and

a storage and retrieval device that is movable in front of each of the shelf bays;

the product support is supported for displacement in the longitudinal direction relative to the guiding channel of the respective shelf;

the product support comprises a receiving channel extending in the longitudinal direction and open in the upward direction, whose at least one face side has an open configuration; and

the storage and retrieval device includes an actuating finger adapted to be engaged in the product support and to be displaced in the longitudinal direction, and at least one retaining finger that is pivotable into the clearance of the receiving channel open in the upward direction.

14. (Previously Presented) Shelf storage facility according to Claim 1, wherein said shelf bays are disposed in groups and said shelves of one group are formed by a corrugated plate.

15. (Previously Presented) Shelf storage facility according to Claim 14, wherein said plate is connected to a beam fastened on a shelf rack, at an edge remote from said storage and retrieval device.

16. (Previously Presented) Shelf storage facility according to Claim 15, wherein said beam is fastened in said shelf rack for vertical adjustment.

17. (Previously Presented) Shelf storage facility according to Claim 1, wherein a plurality of shelf bays is disposed in a rack and said rack is supported in said shelf rack in a mobile manner.

18. (Previously Presented) Shelf storage facility according to Claim 1, wherein two shelf racks are disposed at a distance from and opposite each other and that said storage and retrieval device is provided between said shelf racks.

19. (Previously Presented) Shelf storage facility according to Claim 1, wherein said product supports are so designed that they rest by their underside directly on the respective shelf.

20. (Previously Presented) Shelf storage facility according to any Claim 1, wherein the underside of said product support is adapted to the upper side of the associated shelf.

21. (Previously Presented) Shelf storage facility according to Claim 1, wherein said product support presents positioning means on its upper side in order to align and/or orient products located on said product support.

22. (Previously Presented) Shelf storage facility according to Claim 1, wherein said product support includes, in its upper side, a receiving channel open in the upward direction and extending in the longitudinal direction of said product support.

23. (Previously Presented) Shelf storage facility according to Claim 1, wherein said product support includes two plane surfaces which extend in a V-shaped configuration relative to each other and pass through the length of the respective product support with this relative arrangement.

24. (Previously Presented) Shelf storage facility according to Claim 1, wherein said product support of a respective shelf bay is merely formed by two surfaces extending in a V-shaped configuration relative to each other.

25. (Previously Presented) Shelf storage facility according to Claim 24, wherein said surfaces extending in a V-shaped configuration relative to each other are integral.

26. (Previously Presented) A shelf storage facility, comprising:
a plurality of shelf bays which each present a shelf with an upper side providing for a first guide fixed to the shelf, each is disposed in a shelf bay and is configured as a guiding channel extending in the longitudinal direction of the shelf, the shelf of a respective shelf bay is formed by two surfaces extending in a V-shaped configuration relative to each other and enclosing an angle of 90° therebetween;

a plurality of product supports each associated with a respective shelf bay, each product support has a second guide fixed to the product support, which second guide is complementary to the first guide fixed to the shelf, and a supporting surface, the product support of a respective shelf bay is formed by two surfaces extending in a V-shaped configuration relative to each other and enclosing an angle of 90° therebetween; and

a storage and retrieval device that is movable in front of each of the shelf bays;

the product support is supported for displacement in the longitudinal direction relative to the guiding channel of the respective shelf;

the product support comprises a receiving channel extending in the longitudinal direction and open in the upward direction, whose at least one face side has an open configuration; and

the storage and retrieval device includes an actuating finger adapted to be engaged in the product support and to be displaced in the longitudinal direction, and at least one retaining finger that is pivotable into the clearance of the receiving channel open in the upward direction.

27. (Previously Presented) Shelf storage facility according to Claim 1, wherein the length of said product support is longer than the depth of the associated shelf bay.

28. (Previously Presented) Shelf storage facility according to Claim 1, wherein all product supports have the same length, independently of the width of the respective shelf bay.

29. (Previously Presented) Shelf storage facility according to Claim 1, wherein the product supports have a first length which is greater than a total length of at least two products of a second length disposed on a respective product support one behind the other, the shelf storage facility is operable to selectively separate one of the products from the product support.

30. (Previously Presented) Shelf storage facility according to Claim 1, wherein the shelf storage facility is operable to selectively separate products from the product support.